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 I - Manufacture of fire-resistant silane-crosslinked polyolefins.
 N - Matsuda, Yutaka
 A - Sumitomo Bakelite Co., Ltd., Japan
 O - Jpn. Kokai Tokkyo Koho, 7 pp.
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 T - Patent
 A - Japanese
 C - ICM C08L023/26
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 C - 37-6 (Plastics Manufacture and Processing)
 AN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
N	JP11181188	A	19990706	JP 1997-356921	19971225
R	JP 1997-356921		19971225		
B	<p>The polyolefins are manufd. by (1) mixing (i) polyolefin compns. contg. .alpha.-olefin (co)polymers of d. .ltoreq.0.92 g/cm3 100, <u>flame retardan</u> 50-200, water absorbents 0.5-10, heavy <u>metal deactivator</u> 0.01-5 parts, a silanol condensation catalysts with (ii) H2O-free carrier polymers contg RR'SiY2 (R = olefinically unsatd. hydrocarbyl; Y = hydrolyzable org. group; R' = Y, hydrocarbyl other than aliph. unsatd. hydrocarbyl) and fr radical generators, at the temp. higher than the m.p. of the .alpha.-olefin polymers and (2) crosslinking by treating with H2O. Thus 98 parts <u>polyolefin</u> compn. comprising Softrex D 9052 (ethylene-.alpha.-olefin copolymer) 100, oleic acid-treated Kisuma 5B [Mg(OH)2] 120, stear acid-treated slaked lime 5, <u>ADK Stab CDA 1</u> (heavy metal deactivator) 2, dibutyltin dilaurate 0.09, <u>Irganox 1010 (antioxidant)</u> 2, and Sanwax 171P (lubricant) 0.5 part was mixed with 2 parts carrier polymer compn. comprising ethylene-Et acrylate copolymer 95, hydrogenated styrene-isoprene block copolymer 5, vinyltrimethoxysilane 45, and dicumy peroxide 2.16 parts, extruded, and soaked in hot water to give a <u>tape</u> showing good appearance, 0 index 31, gel fraction 77%, <u>tensile strength</u> MPa, elongation 330%, good hot setting, and no discoloration by Cu wire.</p>				
T	<p>fire resistant silane crosslinked polyolefin manuf; unsatd silane carrie polymer crosslinking polyolefin; ethylene olefin copolymer vinyltrimethoxysilane crosslinking</p>				
T	<p>Isoprene-styrene rubber RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses) (hydrogenated, block, carrier polymer for silanes; prepn. of fire-resistant silane-crosslinked polyolefins)</p>				
T	<p>Polysiloxanes, preparation RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation) (polyolefin-; prepn. of fire-resistant silane-crosslinked polyolefins)</p>				
T	<p>Crosslinking Fire-resistant materials Fireproofing agents (prepn. of fire-resistant silane-crosslinked polyolefins)</p>				
T	<p>Polyolefins RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation) (prepn. of fire-resistant silane-crosslinked polyolefins)</p>				
T	<p>9010-86-0, Ethyl acrylate-ethylene copolymer 25101-13-7, Ethylene-meth methacrylate copolymer RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)</p>				

(carrier polymer for silanes; prepn. of fire-resistant silane-crosslinked polyolefins)

T - 1309-42-8, Kisuma 5B

RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
(flame retardant; prepn. of fire-resistant silane-crosslinked polyolefins)

T - 36411-52-6, ADK Stab CDA 1

RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
(heavy metal deactivator; prepn. of fire-resistant silane-crosslinked polyolefins)

T - 25038-32-8

RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)

(isoprene-styrene rubber, hydrogenated, block, carrier polymer for silanes; prepn. of fire-resistant silane-crosslinked polyolefins)

IT - 63411-54-1P, Ethylene-propylene-vinyltrimethoxysilane copolymer

85178-03-6P, 1-Butene-ethylene-vinyltrimethoxysilane copolymer

RL: IMF (Industrial manufacture); PRP (Properties); PREP (Preparation)
(prepn. of fire-resistant silane-crosslinked polyolefins)

IT - 1305-62-0, Slaked lime, properties

RL: MOA (Modifier or additive use); PRP (Properties); USES (Uses)
(water absorbent; prepn. of fire-resistant silane-crosslinked polyolefins)